

Worm and wheel set



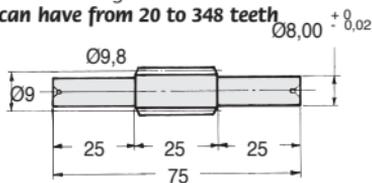
Module 0.4 Worm in steel or machined plastic

- Pitch 1.257mm
- **Machined parts**
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: Bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

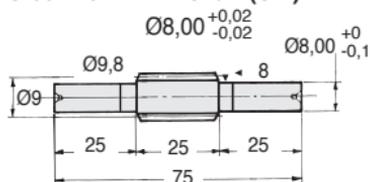


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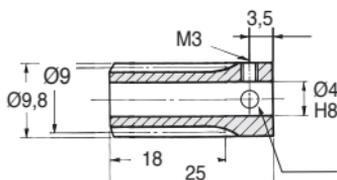
- Left handed lead angle
- **Wheel can have from 20 to 348 teeth**



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



Steel (W) or plastic (ZW) worm with bore

DISCOUNT STEEL

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT DELRIN

Qty	1+	6+	30+
Disc.	List	-22%	On request

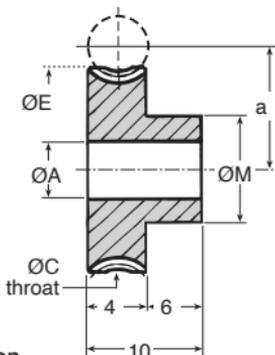
Part number	Bored type	Shaft type	No. of starts	Lead angle	Price each 1 to 5	
					Bored type	Shaft type
Non hardened steel						
W0.4-1	W0.4-1	SW0.4-1	1	2°32'	38,02 €	69,59 €
W0.4-2	W0.4-2	SW0.4-2	2	5°04'	38,57 €	74,51 €
W0.4-3	W0.4-3	SW0.4-3	3	7°35'	40,52 €	78,73 €
W0.4-4	W0.4-4	SW0.4-4	4	10°40'	43,63 €	81,15 €
Hardened steel						
WH0.4-1	WH0.4-1	SWH0.4-1	1	2°32'	52,89 €	98,98 €
WH0.4-2	WH0.4-2	SWH0.4-2	2	5°04'	54,84 €	105,92 €
WH0.4-3	WH0.4-3	SWH0.4-3	3	7°35'	56,73 €	111,81 €
WH0.4-4	WH0.4-4	SWH0.4-4	4	10°40'	61,97 €	115,39 €
Plastic						
ZW0.4-1	ZW0.4-1	ZSW0.4-1	1	2°32'	26,12 €	49,16 €
ZW0.4-2	ZW0.4-2	ZSW0.4-2	2	5°04'	27,25 €	52,53 €
ZW0.4-3	ZW0.4-3	ZSW0.4-3	3	7°35'	28,49 €	55,55 €
ZW0.4-4	ZW0.4-4	ZSW0.4-4	4	10°40'	30,67 €	57,30 €

Dimensions in mm

Wheel in bronze or **machined** plastic **Module 0.4**

Info.

- Pitch 1.257mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W0.4-1**, wheel **M0.4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze	Delrin
WORM material	Nm (kW)	Nm (kW)
Steel	0.57 (0.0012)	0.36 (0.00075)
Hardened steel	1.00 (0.0021)	-
Delrin	-	0.14 (0.00030)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres					Price each 1 to 5		
Bronze	Delrin	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
M0.4-28/1	ZM0.4-28/1	28	11,20	10,10	12,00	12,40	10,40	3	34,23 €	17,15 €
M0.4-30/1	ZM0.4-30/1	30	12,00	10,50	12,80	13,20	8,00	3	34,95 €	17,49 €
M0.4-34/1	ZM0.4-34/1	34	13,60	11,30	14,40	14,80	8,00	3	35,68 €	17,94 €
M0.4-36/1	ZM0.4-36/1	36	14,40	11,70	15,20	15,60	8,00	3	37,21 €	18,50 €
M0.4-40/1	ZM0.4-40/1	40	16,00	12,50	16,80	17,20	12,00	4	38,49 €	19,28 €
M0.4-45/1	ZM0.4-45/1	45	18,00	13,50	18,80	19,20	12,00	4	38,97 €	19,57 €
M0.4-48/1	ZM0.4-48/1	48	19,20	14,10	20,00	20,40	12,00	4	38,97 €	19,72 €
M0.4-50/1	ZM0.4-50/1	50	20,00	14,50	20,80	21,20	12,00	4	38,97 €	19,89 €
M0.4-62/1	ZM0.4-62/1	62	24,80	16,90	25,60	26,00	12,00	4	39,23 €	20,67 €
M0.4-72/1	ZM0.4-72/1	72	28,80	18,90	29,60	30,00	12,00	5	42,25 €	21,15 €
M0.4-75/1	ZM0.4-75/1	75	30,00	19,50	30,80	31,20	12,00	5	42,45 €	23,46 €
M0.4-84/1	ZM0.4-84/1	84	33,60	21,30	34,40	34,80	12,00	5	44,67 €	24,80 €
M0.4-100/1	ZM0.4-100/1	100	40,00	24,50	40,80	41,20	12,00	5	54,98 €	29,39 €
M0.4-120/1	ZM0.4-120/1	120	48,00	28,50	48,80	49,20	12,00	5	61,99 €	34,05 €
M0.4-130/1	ZM0.4-130/1	130	52,00	30,50	52,80	53,20	12,00	5	71,19 €	37,15 €
M0.4-140/1	ZM0.4-140/1	140	56,00	32,50	56,80	57,20	12,00	5	81,15 €	40,86 €
M0.4-200/1	ZM0.4-200/1	200	80,00	44,50	80,80	81,20	20,00	6	153,51 €	77,23 €
M0.4-300/1	ZM0.4-300/1	300	120,00	64,50	120,80	121,20	20,00	6	357,71 €	130,30 €

Wheels available up to this size		Dimensions : contact us	
M0.4-348	ZM0.4-348	348	On request

Worm and wheel set



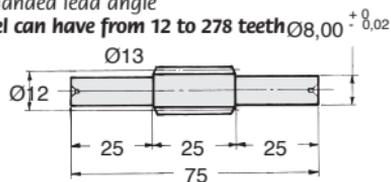
Module 0.5 Worm in steel or machined plastic

- Pitch 1.571mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

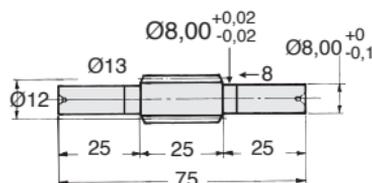


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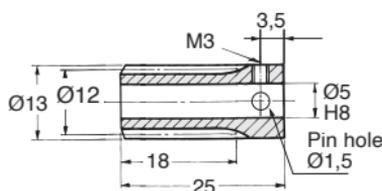
- Left handed lead angle
- Wheel can have from 12 to 278 teeth $\varnothing 8,00^{+0,02}$



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



Steel (W) or plastic (ZW) worm with bore

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List -12%	-25%	On request	

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List -22%	On request	

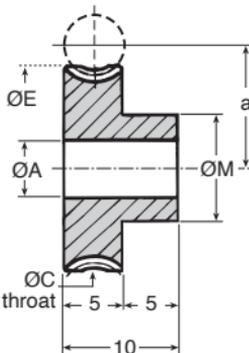
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W0.5-1	SW0.5-1	1	2°23'	37,21 €	73,28 €
W0.5-2	SW0.5-2	2	4°45'	38,57 €	76,52 €
W0.5-3	SW0.5-3	3	7°07'	40,52 €	80,74 €
W0.5-4	SW0.5-4	4	9°27'	43,63 €	84,43 €
Hardened steel					
WH0.5-1	SWH0.5-1	1	2°23'	52,89 €	104,16 €
WH0.5-2	SWH0.5-2	2	4°45'	54,84 €	108,68 €
WH0.5-3	SWH0.5-3	3	7°07'	57,64 €	114,72 €
WH0.5-4	SWH0.5-4	4	9°27'	61,97 €	120,17 €
Delrin					
ZW0.5-1	ZSW0.5-1	1	2°23'	26,12 €	51,70 €
ZW0.5-2	ZSW0.5-2	2	4°45'	27,25 €	53,94 €
ZW0.5-3	ZSW0.5-3	3	7°07'	28,49 €	56,88 €
ZW0.5-4	ZSW0.5-4	4	9°27'	30,67 €	59,71 €

Dimensions in mm

Wheel in bronze or machined plastic Module 0.5

Info.

- Pitch **1.571mm**
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W0.5-1**, wheel **M0.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze	Delrin
WORM material	Nm (kW)	Nm (kW)
Steel	1.01 (0.0060)	0.65 (0.0040)
Hardened steel	1.86 (0.0039)	-
Delrin	-	0.25 (0.0005)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
M0.5-20	ZM0.5-20	20	10,00	11,00	11,00	11,50	8,50	4	33,77 €	16,95 €
M0.5-25	ZM0.5-25	25	12,50	12,25	13,50	14,00	10,00	4	36,07 €	18,12 €
M0.5-28	ZM0.5-28	28	14,00	13,00	15,00	15,50	10,00	4	36,70 €	18,38 €
M0.5-30	ZM0.5-30	30	15,00	13,50	16,00	16,50	13,00	6	36,84 €	18,42 €
M0.5-32	ZM0.5-32	32	16,00	14,00	17,00	17,50	13,00	6	38,45 €	19,28 €
M0.5-40	ZM0.5-40	40	20,00	16,00	21,00	21,50	13,00	6	44,85 €	22,56 €
M0.5-42	ZM0.5-42	42	21,00	16,50	22,00	22,50	13,00	6	45,54 €	22,80 €
M0.5-48	ZM0.5-48	48	24,00	18,00	25,00	25,50	13,00	6	47,84 €	23,97 €
M0.5-50	ZM0.5-50	50	25,00	18,50	26,00	26,50	13,00	6	48,50 €	24,33 €
M0.5-60	ZM0.5-60	60	30,00	21,00	31,00	31,50	13,00	6	57,18 €	31,63 €
M0.5-78	ZM0.5-78	78	39,00	25,50	40,00	40,50	13,00	6	72,61 €	40,21 €
M0.5-80	ZM0.5-80	80	40,00	26,00	41,00	41,50	13,00	6	74,93 €	47,17 €
M0.5-90	ZM0.5-90	90	45,00	28,50	46,00	46,50	13,00	6	100,57 €	63,27 €
M0.5-100	ZM0.5-100	100	50,00	31,00	51,00	51,50	13,00	6	119,53 €	75,33 €
M0.5-110	ZM0.5-110	110	55,00	33,50	56,00	56,50	13,00	6	124,45 €	78,38 €
M0.5-150	ZM0.5-150	150	75,00	43,50	76,00	76,50	13,00	6	134,14 €	84,31 €
M0.5-160	ZM0.5-160	160	80,00	46,00	81,00	81,50	13,00	6	153,01 €	96,42 €
M0.5-200	ZM0.5-200	200	100,00	56,00	101,00	101,50	13,00	6	290,42 €	105,84 €

Wheels available up to this size

M0.5-278 ZM0.5-278 278

Dimensions : contact us

On request On request

Dimensions in mm

Worm and wheel set



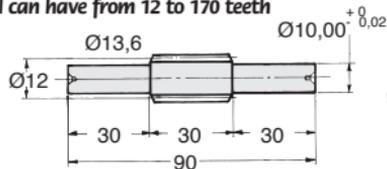
Module 0.8 Worm in steel or machined plastic

- Pitch 2.513mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

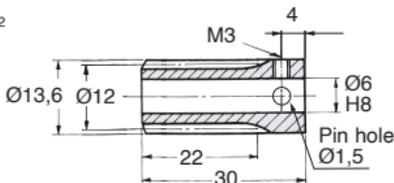


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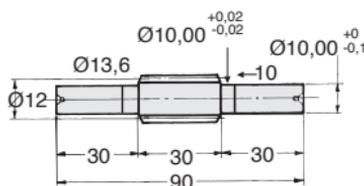
- Left handed lead angle
- Wheel can have from 12 to 170 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List -12%	-25%	On request	

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List -22%	On request	

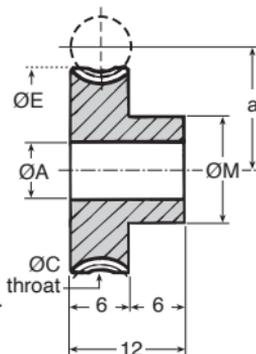
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W0.8-1	SW0.8-1	1	3°48'	42,54 €	73,27 €
W0.8-2	SW0.8-2	2	7°35'	44,41 €	77,05 €
W0.8-3	SW0.8-3	3	11°18'	48,13 €	80,74 €
W0.8-4	SW0.8-4	4	14°55'	52,16 €	84,43 €
Hardened steel					
WH0.8-1	SWH0.8-1	1	3°48'	60,52 €	104,15 €
WH0.8-2	SWH0.8-2	2	7°35'	63,13 €	109,51 €
WH0.8-3	SWH0.8-3	3	11°18'	68,62 €	114,73 €
WH0.8-4	SWH0.8-4	4	14°55'	75,59 €	120,17 €
Delrin					
ZW0.8-1	ZSW0.8-1	1	3°48'	29,98 €	On request
ZW0.8-2	ZSW0.8-2	2	7°35'	31,23 €	54,16 €
ZW0.8-3	ZSW0.8-3	3	11°18'	33,86 €	56,73 €
ZW0.8-4	ZSW0.8-4	4	14°55'	36,70 €	59,42 €

Dimensions in mm

Wheel in bronze or **machined** plastic **Module 0.8**

Info.

- Pitch 2.513mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **WO.8-1**, wheel **MO.8-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze	Delrin
WORM material	Nm (kW)	Nm (kW)
Steel	2.82 (0.006)	1.84 (0.0039)
Hardened steel	5.26 (0.011)	-
Delrin	-	0.70 (0.0015)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
M0.8-15	ZM0.8-15	15	12,00	12,00	13,60	14,40	10	5	34,03 €	17,01 €
M0.8-18	ZM0.8-18	18	14,40	13,20	16,00	16,80	10	5	38,02 €	19,09 €
M0.8-20	ZM0.8-20	20	16,00	14,00	17,60	18,40	12	5	38,72 €	19,39 €
M0.8-24	ZM0.8-24	24	19,20	15,60	20,80	21,60	12	5	41,95 €	20,98 €
M0.8-25	ZM0.8-25	25	20,00	16,00	21,60	22,40	16	8	44,15 €	22,16 €
M0.8-28	ZM0.8-28	28	22,40	17,20	24,00	24,80	16	8	45,77 €	22,96 €
M0.8-30	ZM0.8-30	30	24,00	18,00	25,60	26,40	16	8	47,60 €	23,91 €
M0.8-32	ZM0.8-32	32	25,60	18,80	27,20	28,00	16	8	49,30 €	24,80 €
M0.8-40	ZM0.8-40	40	32,00	22,00	33,60	34,40	20	8	58,88 €	49,89 €
M0.8-42	ZM0.8-42	42	33,60	22,80	35,20	36,00	20	8	63,11 €	34,92 €
M0.8-48	ZM0.8-48	48	38,40	25,20	40,00	40,80	20	8	73,54 €	40,59 €
M0.8-50	ZM0.8-50	50	40,00	26,00	41,60	42,40	20	8	79,32 €	49,90 €
M0.8-60	ZM0.8-60	60	48,00	30,00	49,60	50,40	20	8	121,40 €	76,43 €
M0.8-78	ZM0.8-78	78	62,40	37,20	64,00	64,80	20	8	130,53 €	82,20 €
M0.8-80	ZM0.8-80	80	64,00	38,00	65,60	66,40	20	8	131,69 €	82,98 €
M0.8-90	ZM0.8-90	90	72,00	42,00	73,60	74,40	20	8	150,02 €	94,46 €
M0.8-100	ZM0.8-100	100	80,00	46,00	81,60	82,40	20	8	164,65 €	103,64 €
M0.8-110	ZM0.8-110	110	88,00	50,00	89,60	90,40	20	8	202,68 €	127,71 €
M0.8-150	ZM0.8-150	150	120,00	66,00	121,60	122,40	20	8	402,45 €	146,60 €

Wheels available up to this size		Dimensions : contact us	
M0.8-170	ZM0.8-170	170	On request On request

Dimensions in mm

Worm and wheel set



Module Worm in steel or machined plastic

1.0

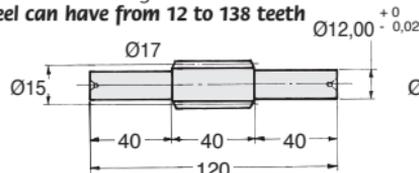


- Pitch 3.142mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4
or delrin plastic
- Delrin: Working temp. -50°C to +80°C

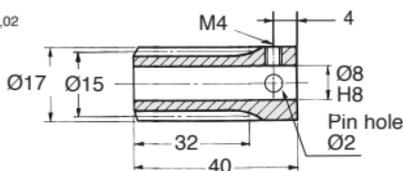


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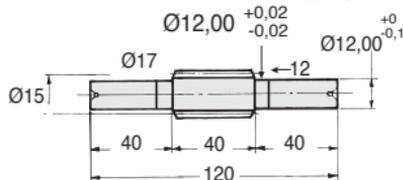
- Left handed lead angle
- Wheel can have from 12 to 138 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

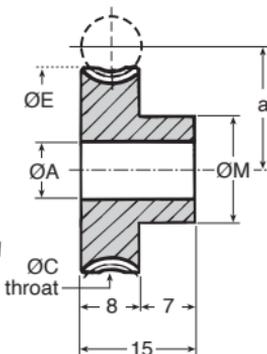
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1-1	SW1-1	1	3°48'	48,99 €	90,48 €
W1-2	SW1-2	2	7°35'	51,86 €	92,95 €
W1-3	SW1-3	3	11°18'	56,88 €	99,22 €
W1-4	SW1-4	4	14°56'	59,40 €	100,68 €
Hardened steel					
WH1-1	SWH1-1	1	3°48'	69,81 €	128,58 €
WH1-2	SWH1-2	2	7°35'	73,67 €	132,12 €
WH1-3	SWH1-3	3	11°18'	80,78 €	140,90 €
WH1-4	SWH1-4	4	14°56'	84,43 €	143,03 €
Delrin					
ZW1-1	ZSW1-1	1	3°48'	34,61 €	63,87 €
ZW1-2	ZSW1-2	2	7°35'	36,53 €	65,51 €
ZW1-3	ZSW1-3	3	11°18'	40,11 €	69,93 €
ZW1-4	ZSW1-4	4	14°56'	41,81 €	71,02 €

Dimensions in mm

Wheel in bronze or machined plastic Module 1.0

Info.

- Pitch 3.142mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm W1-1, wheel M1-20/1
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze Nm (kW)	Delrin Nm (kW)
WORM material		
Steel	5.87 (0.012)	3.42 (0.0072)
Hardened steel	10.06 (0.021)	-
Delrin	-	1.32 (0.0027)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres				Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	ØC	ØE	ØM	ØA	Bronze	Plastic
M1-12	ZM1-12	12	12	13,50	14	15	15	49,30 €	24,80 €
M1-15	ZM1-15	15	15	15,00	17	18	15	51,03 €	25,59 €
M1-18	ZM1-18	18	18	16,50	20	21	15	53,16 €	26,64 €
M1-20	ZM1-20	20	20	17,50	22	23	15	53,68 €	26,93 €
M1-24	ZM1-24	24	24	19,50	26	27	20	56,48 €	28,49 €
M1-25	ZM1-25	25	25	20,00	27	28	20	59,00 €	29,57 €
M1-28	ZM1-28	28	28	21,50	30	31	20	61,18 €	30,67 €
M1-30	ZM1-30	30	30	22,50	32	33	25	63,13 €	34,97 €
M1-32	ZM1-32	32	32	23,50	34	35	25	66,36 €	36,81 €
M1-40	ZM1-40	40	40	27,50	42	43	25	89,63 €	56,38 €
M1-42	ZM1-42	42	42	28,50	44	45	25	91,63 €	57,64 €
M1-48	ZM1-48	48	48	31,50	50	51	25	111,11 €	69,93 €
M1-50	ZM1-50	50	50	32,50	52	53	25	119,60 €	75,33 €
M1-60	ZM1-60	60	60	37,50	62	63	25	131,76 €	82,98 €
M1-78	ZM1-78	78	78	46,50	80	81	25	171,89 €	108,26 €
M1-80	ZM1-80	80	80	47,50	82	83	25	195,56 €	123,16 €
M1-90	ZM1-90	90	90	52,50	92	93	25	243,10 €	153,14 €
M1-100	ZM1-100	100	100	57,50	102	103	25	381,21 €	138,97 €
M1-110	ZM1-110	110	110	62,50	112	113	30	381,21 €	138,97 €

Wheels available up to this size

M1-138	ZM1-138	138	Dimensions : contact us	On request	On request
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Dimensions in mm

Worm and wheel set



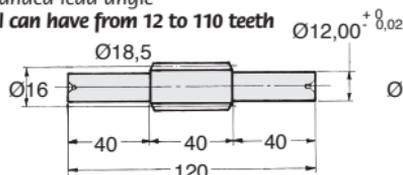
Module 1.25 Worm in steel or machined plastic

- Pitch 3.927mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

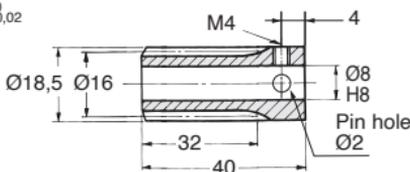


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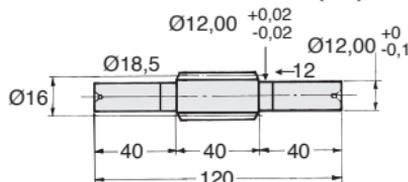
- Left handed lead angle
- Wheel can have from 12 to 110 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List -12%	-25%	On request	

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List -22%	On request	

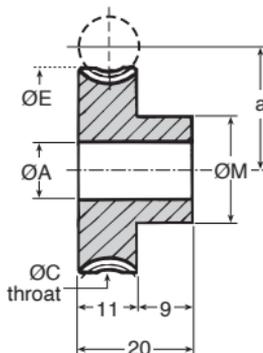
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1.25-1	SW1.25-1	1	4°28'	48,99 €	90,48 €
W1.25-2	SW1.25-2	2	8°53'	51,85 €	92,95 €
W1.25-3	SW1.25-3	3	13°11'	56,88 €	99,22 €
W1.25-4	SW1.25-4	4	17°21'	59,40 €	100,68 €
Hardened steel					
WH1.25-1	SWH1.25-1	1	4°28'	69,81 €	128,58 €
WH1.25-2	SWH1.25-2	2	8°53'	73,67 €	132,12 €
WH1.25-3	SWH1.25-3	3	13°11'	80,79 €	140,90 €
WH1.25-4	SWH1.25-4	4	17°21'	84,43 €	143,03 €
Delrin					
ZW1.25-1	ZSW1.25-1	1	4°28'	34,61 €	63,71 €
ZW1.25-2	ZSW1.25-2	2	8°53'	36,41 €	65,36 €
ZW1.25-3	ZSW1.25-3	3	13°11'	40,01 €	69,84 €
ZW1.25-4	ZSW1.25-4	4	17°21'	41,77 €	64,43 €

Dimensions in mm

Wheel in bronze or machined plastic Module 1.25

Info.

- Pitch 3.927mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W1.25-1**, wheel **M1.25-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	11.41 (0.024)	7.02 (0.015)
Hardened steel	20.25 (0.042)	-
Delrin	-	2.75 (0.006)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List -12%	-25%	On request	

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List -22%	On request	

Part number		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
M1.25-12	ZM1.25-12	12	15,00	15,50	17,50	18,75	14,00	8	53,58 €	26,93 €
M1.25-15	ZM1.25-15	15	18,75	17,38	21,25	22,50	14,00	8	56,33 €	28,26 €
M1.25-20	ZM1.25-20	20	25,00	20,50	27,50	28,75	20,00	10	54,67 €	31,63 €
M1.25-38	ZM1.25-38	38	47,50	31,75	50,00	51,25	25,00	10	99,87 €	62,83 €
M1.25-45	ZM1.25-45	45	56,25	36,13	58,75	60,00	25,00	10	127,92 €	80,64 €
M1.25-60	ZM1.25-60	60	75,00	45,50	77,50	78,75	32,00	12	212,57 €	133,83 €

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Wheels available up to this size
M1.25-110 ZM1.25-110 110 Dimensions : contact us On request On request
 Dimensions in mm

Worm and wheel set



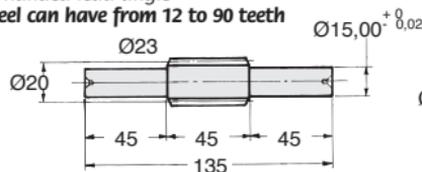
Module 1.5 Worm in steel or machined plastic

- Pitch 4.712mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

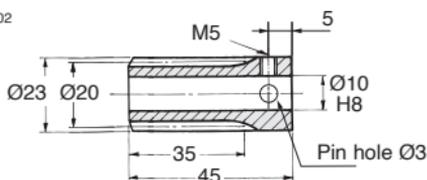


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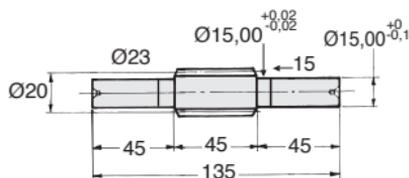
- Left handed lead angle
- Wheel can have from 12 to 90 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

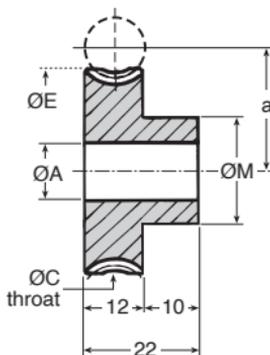
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1.5-1	SW1.5-1	1	4°17'	56,78 €	106,40 €
W1.5-2	SW1.5-2	2	8°31'	65,99 €	112,06 €
W1.5-3	SW1.5-3	3	12°40'	69,25 €	115,60 €
W1.5-4	SW1.5-4	4	16°42'	75,09 €	116,85 €
Hardened steel					
WH1.5-1	SWH1.5-1	1	4°17'	80,74 €	151,19 €
WH1.5-2	SWH1.5-2	2	8°31'	93,68 €	159,18 €
WH1.5-3	SWH1.5-3	3	12°40'	98,37 €	164,06 €
WH1.5-4	SWH1.5-4	4	16°42'	106,61 €	166,01 €
Delrin					
ZW1.5-1	ZSW1.5-1	1	4°17'	39,99 €	75,20 €
ZW1.5-2	ZSW1.5-2	2	8°31'	46,30 €	79,18 €
ZW1.5-3	ZSW1.5-3	3	12°40'	48,68 €	81,57 €
ZW1.5-4	ZSW1.5-4	4	16°42'	52,79 €	82,45 €

Dimensions in mm

Wheel in bronze or machined plastic Module 1.5

Info.

- Pitch 4.712mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W1.5-1**.
wheel **M1.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	16.80 (0.035)	10.05 (0.021)
Hardened steel	30.00 (0.063)	-
Delrin	-	3.97 (0.008)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List -12%	List -25%	On request	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List -22%	On request	On request

Part number		Z	Centres					Price each 1 to 5		
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØM	ØA	Bronze	Plastic
M1.5-12	ZM1.5-12	12	18,00	19,00	21,00	22,50	15	8	59,13 €	29,71 €
M1.5-15	ZM1.5-15	15	22,50	21,25	25,50	27,00	18	8	72,96 €	36,60 €
M1.5-18	ZM1.5-18	18	27,00	23,50	30,00	31,50	18	8	77,97 €	39,23 €
M1.5-20	ZM1.5-20	20	30,00	25,00	33,00	34,50	20	10	80,44 €	44,42 €
M1.5-22	ZM1.5-22	22	33,00	26,50	36,00	37,50	20	10	82,98 €	45,98 €
M1.5-24	ZM1.5-24	24	36,00	28,00	39,00	40,50	20	10	85,74 €	47,41 €
M1.5-25	ZM1.5-25	25	37,50	28,75	40,50	42,00	25	10	88,30 €	48,94 €
M1.5-28	ZM1.5-28	28	42,00	31,00	45,00	46,50	25	10	92,75 €	58,33 €
M1.5-30	ZM1.5-30	30	45,00	32,50	48,00	49,50	30	15	97,18 €	61,25 €
M1.5-32	ZM1.5-32	32	48,00	34,00	51,00	52,50	30	15	100,48 €	63,27 €
M1.5-34	ZM1.5-34	34	51,00	35,50	54,00	55,50	30	15	112,05 €	70,57 €
M1.5-40	ZM1.5-40	40	60,00	40,00	63,00	64,50	30	15	150,67 €	94,93 €
M1.5-42	ZM1.5-42	42	63,00	41,50	66,00	67,50	30	15	166,50 €	104,87 €
M1.5-48	ZM1.5-48	48	72,00	46,00	75,00	76,50	30	15	211,60 €	133,28 €
M1.5-50	ZM1.5-50	50	75,00	47,50	78,00	79,50	30	15	227,69 €	143,43 €
M1.5-60	ZM1.5-60	60	90,00	55,00	93,00	94,50	30	15	317,62 €	200,02 €
M1.5-78	ZM1.5-78	78	117,00	68,50	120,00	121,50	30	15	626,08 €	228,06 €
M1.5-80	ZM1.5-80	80	120,00	70,00	123,00	124,50	30	15	626,08 €	228,06 €

↓ Wheels available up to this size		↓ ↓	
M1.5-90	ZM1.5-90	Dimensions: contact us	805,90 € 270,87 €

Dimensions in mm

Worm and wheel set



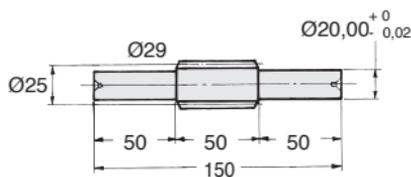
Module 2.0 Worm in steel or machined plastic

- Pitch 6.283mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

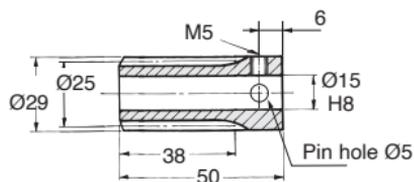


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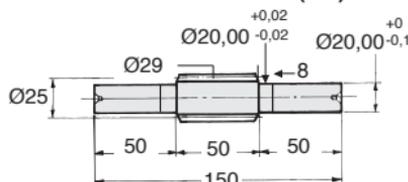
- Left handed lead angle
- Wheel can have from 12 to 285 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

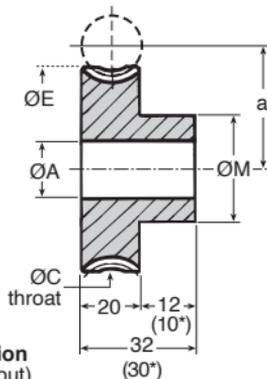
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W2-1	SW2-1	1	4°34'	98,91 €	149,96 €
W2-2	SW2-2	2	9°05'	106,02 €	159,13 €
W2-3	SW2-3	3	13°29'	113,80 €	162,50 €
W2-4	SW2-4	4	17°45'	125,44 €	170,72 €
Hardened steel					
WH2-1	SWH2-1	1	4°34'	140,53 €	213,18 €
WH2-2	SWH2-2	2	9°05'	150,67 €	226,08 €
WH2-3	SWH2-3	3	13°29'	161,62 €	231,04 €
WH2-4	SWH2-4	4	17°45'	178,16 €	242,44 €
Delrin					
ZW2-1	ZSW2-1	1	4°34'	69,49 €	105,58 €
ZW2-2	ZSW2-2	2	9°05'	74,57 €	112,06 €
ZW2-3	ZSW2-3	3	13°29'	80,02 €	114,47 €
ZW2-4	ZSW2-4	4	17°45'	88,22 €	120,06 €

Dimensions in mm

Wheel in bronze or machined plastic Module 2.0

Info.

- Pitch **6.283mm**
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W2-1**, wheel **M2-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze	Delrin
WORM material		
Steel	45 (0.094)	28.3 (0.059)
Hardened steel	79 (0.166)	-
Delrin	-	11.0 (0.023)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres				Price each 1 to 5			
Bronze	Plastic	Teeth	OP	a	OC	OE	OM	OA	Bronze	Plastic
M2-12	ZM2-12	12	24	24,50	28	30	20	12	121,97 €	61,31 €
M2-15	ZM2-15	15	30	27,50	34	36	25	15	148,78 €	82,40 €
M2-18	ZM2-18	18	36	30,50	40	42	30	15	163,19 €	89,23 €
M2-20	ZM2-20	20	40	32,50	44	46	30	15	169,31 €	106,52 €
M2-22	ZM2-22	22	44	34,50	48	50	30	15	189,50 €	112,95 €
M2-24	ZM2-24	24	48	36,50	52	54	30	15	199,64 €	119,31 €
M2-25	ZM2-25	25	50	37,50	54	56	40	20	204,82 €	125,72 €
M2-28	ZM2-28	28	56	40,50	60	62	40	20	214,98 €	137,21 €
M2-30	ZM2-30	30	60	42,50	64	66	50	20	220,07 €	138,52 €
M2-32	ZM2-32	32	64	44,50	68	70	50	20	228,59 €	142,60 €
M2-34	ZM2-34	34	68	46,50	72	74	50	20	254,63 €	160,45 €
M2-40	ZM2-40	40	80	52,50	84	86	50	20	341,43 €	215,16 €
M2-42	ZM2-42	42	84	54,50	88	90	50	20	373,17 €	235,03 €
M2-45	ZM2-45	45	90	57,50	94	96	50	20	423,44 €	266,88 €
M2-48	ZM2-48	48	96	60,50	100	102	50	20	689,85 €	238,22 €
M2-50	ZM2-50	50	100	62,50	104	106	50	20	689,85 €	238,22 €
M2-60	ZM2-60	60	120	72,50	124	126	50	20	849,72 €	293,28 €
M2-65	ZM2-65	65	130	77,50	134	136	50	20	1 093,71 €	348,23 €

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Wheels available up to this size
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M2-72	ZM2-72	72	Dimensions: contact us	On request	On request
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Dimensions in mm

Worm and wheel set



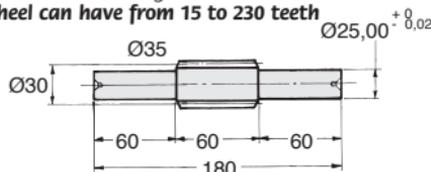
Module 2.5 Worm in steel or machined plastic

- Pitch 7.854mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

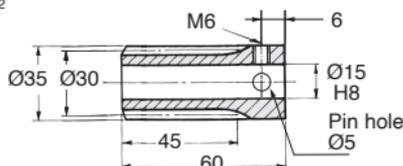


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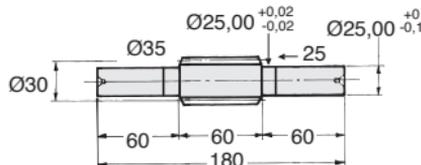
- Left handed lead angle
- Wheel can have from 15 to 230 teeth



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) shaft with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

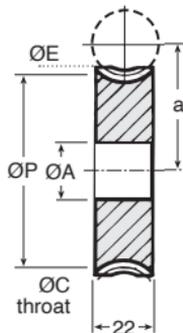
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W2.5-1	SW2.5-1	1	4°34'	149,11 €	219,23 €
W2.5-2	SW2.5-2	2	9°50'	159,18 €	228,46 €
W2.5-3	SW2.5-3	3	13°29'	165,63 €	237,42 €
W2.5-4	SW2.5-4	4	17°45'	171,27 €	248,36 €
Hardened steel					
WH2.5-1	SWH2.5-1	1	4°34'	201,61 €	316,40 €
WH2.5-2	SWH2.5-2	2	9°50'	213,37 €	327,53 €
WH2.5-3	SWH2.5-3	3	13°29'	216,64 €	334,56 €
WH2.5-4	SWH2.5-4	4	17°45'	222,34 €	342,71 €
Delrin					
ZW2.5-1	ZSW2.5-1	1	4°34'	98,47 €	148,78 €
ZW2.5-2	ZSW2.5-2	2	9°50'	105,58 €	155,33 €
ZW2.5-3	ZSW2.5-3	3	13°29'	110,27 €	161,73 €
ZW2.5-4	ZSW2.5-4	4	17°45'	114,25 €	169,60 €

Dimensions in mm

Wheel in bronze or machined plastic Module 2.5

Info.

- Pitch 7.854mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm W2.5-1. wheel M2.5-20/1
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication for 50 teeth at 1000 rpm (input)

WHEEL material \ WORM material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	81 (0.169)	40 (0.085)
Hardened steel	124 (0.258)	-
Delrin	-	18 (0.034)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres					Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØA	Bronze	Plastic
PM2.5-15	ZPM2.5-15	15	37,50	33,75	42,50	45,00	15	115,01 €	82,73 €
PM2.5-20	ZPM2.5-20	20	50,00	40,00	55,00	57,50	20	140,99 €	101,43 €
PM2.5-25	ZPM2.5-25	25	62,50	46,25	67,50	70,00	20	157,03 €	112,95 €
PM2.5-30	ZPM2.5-30	30	75,00	52,50	80,00	82,50	20	164,01 €	117,96 €
PM2.5-40	ZPM2.5-40	40	100,00	65,00	105,00	107,50	20	508,30 €	185,27 €
PM2.5-50	ZPM2.5-50	50	125,00	77,50	130,00	132,50	20	805,90 €	270,87 €
↓ ↓ ↓ ↓ ↓									
Wheels available up to this size									
PM2.5-55	ZPM2.5-55	55	137,50	83,75	142,50	145,00	20	967,08 €	333,58 €

Dimensions in mm

Worm and wheel set



Module 3.0 Worm in steel or machined plastic

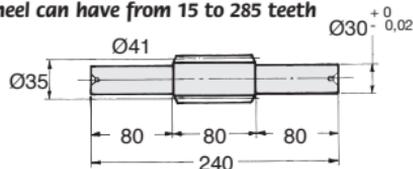


- Pitch 9.425mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

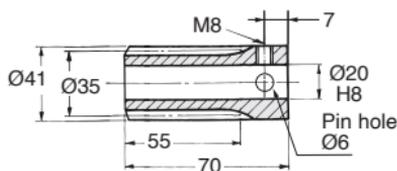


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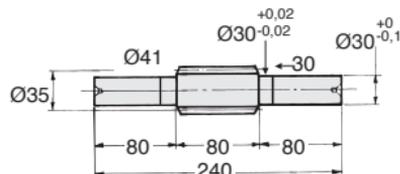
- Left handed lead angle
- **Wheel can have from 15 to 285 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

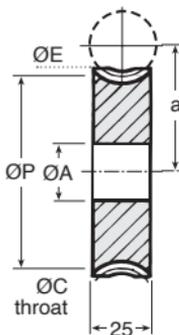
Part number	Bored type		No. of starts	Lead angle	Price each 1 to 5	
	Shaft type	Bored type			Shaft type	
Non hardened steel						
W3-1	SW3-1		1	4°54'	178,00 €	254,69 €
W3-2	SW3-2		2	9°44'	183,88 €	270,37 €
W3-3	SW3-3		3	14°25'	189,34 €	281,70 €
W3-4	SW3-4		4	18°55'	196,81 €	292,84 €
Hardened steel						
WH3-1	SWH3-1		1	4°54'	228,47 €	348,66 €
WH3-2	SWH3-2		2	9°44'	234,53 €	338,86 €
WH3-3	SWH3-3		3	14°25'	246,33 €	344,36 €
WH3-4	SWH3-4		4	18°55'	256,19 €	361,53 €
Delrin						
ZW3-1	ZSW3-1		1	4°54'	140,99 €	195,96 €
ZW3-2	ZSW3-2		2	9°44'	145,09 €	203,22 €
ZW3-3	ZSW3-3		3	14°25'	149,07 €	211,47 €
ZW3-4	ZSW3-4		4	18°55'	154,41 €	219,54 €

Dimensions in mm

Wheel in bronze or **machined** plastic **Module 3.0**

Info.

- Pitch **9.425mm**
- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **W3-1**, wheel **M3-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication for 50 teeth at 1000 rpm (input)

WHEEL material \ WORM material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	139 (0.291)	69 (0.145)
Hardened steel	200 (0.422)	-
Delrin	-	27 (0.058)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	Centres			Price each 1 to 5			
Bronze	Plastic	Teeth	ØP	a	ØC	ØE	ØA	Bronze	Plastic
PM3-15	ZPM3-15	15	45	40,00	51	54	25	123,16 €	88,57 €
PM3-20	ZPM3-20	20	60	47,50	66	69	25	155,66 €	111,99 €
PM3-25	ZPM3-25	25	75	55,00	81	84	25	187,44 €	134,82 €
PM3-30	ZPM3-30	30	90	62,50	96	99	25	270,01 €	194,32 €
PM3-40	ZPM3-40	40	120	77,50	126	129	25	693,19 €	252,49 €

Wheels available up to this size

PM3-48	ZPM3-48	48	Dimensions: contact us				On request	On request
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Dimensions in mm

Worm and wheel set



Module 4.0 Worm in steel or machined plastic

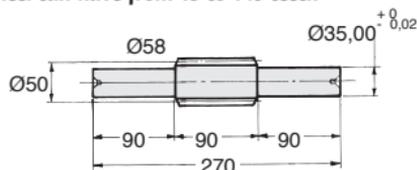
4.0

- Pitch 12.566mm
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
Worm: Steel 20NCD2 or Delrin plastic
Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

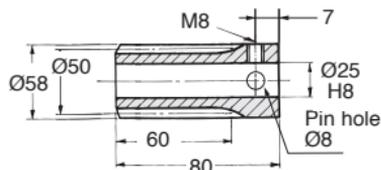


Options

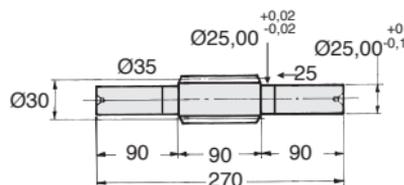
- Left handed lead angle
- Wheel can have from 15 to 140 teeth



Steel worm with shaft (SW)



Steel (W) or plastic* (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

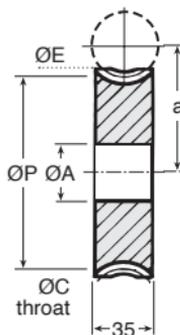
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W4-1	SW4-1	1	4°34'	277,31 €	372,95 €
W4-2	SW4-2	2	9°50'	291,44 €	392,56 €
W4-3	SW4-3	3	13°30'	306,56 €	414,52 €
W4-4	SW4-4	4	17°45'	325,69 €	442,39 €
Hardened steel					
WH4-1	SWH4-1	1	4°34'	347,17 €	517,24 €
WH4-2	SWH4-2	2	9°50'	366,35 €	527,20 €
WH4-3	SWH4-3	3	13°30'	378,88 €	548,24 €
WH4-4	SWH4-4	4	17°45'	402,79 €	563,73 €
Delrin					
ZW4-1	ZSW4-1	1	4°34'	187,99 €	263,77 €
ZW4-2	ZSW4-2	2	9°50'	197,09 €	277,11 €
ZW4-3	ZSW4-3	3	13°30'	209,13 €	293,77 €
ZW4-4	ZSW4-4	4	17°45'	222,57 €	309,00 €

Dimensions in mm

Wheel in bronze or machined plastic Module 4.0

Info.

- Pitch 12.566mm
- To order, add the number of starts on the worm to the wheel's part number.
E.g: **worm W4-1**, wheel **M4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication for 50 teeth at 1000 rpm (input)

WHEEL material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	309 (0.647)	61 (0.129)
Hardened steel	417 (0.873)	-
Delrin	-	154 (0.324)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Z Teeth	Centres a	ØP	ØC	ØE	ØA	Price each 1 to 5		
							Bronze	Plastic	
PM4-15	ZPM4-15	15	60	55	68	72	25	293,22 €	189,67 €
PM4-20	ZPM4-20	20	80	65	88	92	25	341,29 €	220,71 €
PM4-25	ZPM4-25	25	100	75	108	112	35	744,33 €	271,37 €
PM4-30	ZPM4-30	30	120	85	128	132	35	1 180,08 €	396,63 €

Wheels available up to this size

PM4-36	ZPM4-36	36	Dimensions: contact us				On request	On request
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Dimensions in mm